

CLAIMS

1. An impact-resistant thermoplastic resin composition comprising from 5 to 50 parts by weight of (A) a graft copolymer and from 95 to 50 parts by weight of (B) a thermoplastic resin containing an aromatic vinyl polymer having a syndiotactic structure,

said graft copolymer (A) being obtained by polymerizing from 60 to 15 wt.% of (d) a monomer mixture containing from 20 to 100 wt.% of an aromatic vinyl monomer in the presence of from 40 to 85 wt.% of (c) latex-form rubber particles having an average particle size of from 3000 to 20000 Å obtained by agglomerating (a) latex-form rubber particles having an average particle size not greater than 3000 Å by adding thereto from 0.1 to 15 parts by weight (on solid basis) of (b) an acid-group-containing copolymer latex obtained by polymerizing a monomer mixture composed of from 5 to 25 wt.% of an unsaturated carboxylic acid and from 95 to 75 wt.% of a monomer copolymerizable with the unsaturated carboxylic acid, per 100 parts by weight (on solid basis) of the particles (a).

2. An impact-resistant thermoplastic resin composition of Claim 1, wherein the latex-form rubber particles (a) having an average particle size not greater than 3000 Å are latex-form rubber particles having an average particle size of from 500 to 3000 Å obtained by polymerizing a monomer mixture containing from 50 to 100 wt.% of at least one monomer selected from the

group consisting of conjugated diene monomers and acrylic acid esters having a C₁₋₁₂ organic group.

3. An impact-resistant thermoplastic resin composition of Claim 1, wherein the acid-group-containing copolymer latex (b) is available by copolymerizing from 5 to 25 wt.% of at least one unsaturated carboxylic acid selected from the group consisting of acrylic acid, methacrylic acid, itaconic acid and crotonic acid and from 95 to 75 wt.% of a monomer copolymerizable with the unsaturated carboxylic acid.

4. An impact-resistant thermoplastic resin composition of Claim 1, wherein the monomer copolymerizable with the unsaturated carboxylic acid of the acid-group-containing copolymer latex (b) contains from 5 to 30 wt.% of an alkyl acrylate having a C₁₋₁₂ alkyl group, from 20 to 80 wt.% of an alkyl methacrylate having a C₁₋₁₂ alkyl group and from 0 to 40 wt.% of another vinyl monomer.

5. An impact-resistant thermoplastic resin composition of Claim 1, wherein the acid-group-containing copolymer latex (b) is obtained by polymerizing from 5 to 90 wt.% of (b-1) a monomer mixture having a low unsaturated carboxylic acid content first and then polymerizing from 95 to 10 wt.% of (b-2) a monomer mixture having a high unsaturated carboxylic acid content.

6. An impact-resistant thermoplastic resin composition of Claim 1, wherein the monomer mixture (d) to be polymerized in the presence of the latex-form rubber particles (c) is

composed of from 40 to 99 wt.% of an aromatic vinyl monomer and from 1 to 60 wt.% of at least one monomer selected from the group consisting of (meth)acrylate esters and vinyl cyanides.

7. An impact-resistant thermoplastic resin composition of Claim 1, wherein the thermoplastic resin (B) is a thermoplastic resin containing polystyrene having a syndiotactic structure.

8. An impact-resistant thermoplastic resin composition obtained by adding, to 100 parts by weight of an impact-resistant thermoplastic resin composition of Claim 1, from 0.01 to 100 parts by weight of at least one additive selected from the group consisting of inorganic fillers, nucleating agents, antioxidants, flame retardants, antistatics, lubricants and pigments.